Zulkifli Ahmad

List of Publications by Year
in descending order

99 papers	2,792 citations	331259 21 h-index	189595 50 g-index
101 all docs	101 docs citations	101 times ranked	3887 citing authors

#	Article	IF	Citations
1	Classification, processing and application of hydrogels: A review. Materials Science and Engineering C, 2015, 57, 414-433.	3.8	1,022
2	Starch-Based Hydrogels: Present Status and Applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 411-420.	1.8	223
3	Characterization of the mechanical and thermal properties and morphological behavior of biodegradable poly(<scp>L</scp>â€lactide)/poly(lµâ€caprolactone) and poly(<scp>L</scp>â€lactide)/poly(butylene succinateâ€coâ€<scp>L</scp>â€lactate) polymeric blends. Journal of Applied Polymer Science, 2009, 114, 1784-1792.	1.3	116
4	Synthesis of linear low-density polyethylene-g-poly (acrylic acid)-co-starch/organo-montmorillonite hydrogel composite as an adsorbent for removal of Pb(Î™Î™) from aqueous solutions. Journal of Environmental Sciences, 2015, 27, 9-20.	3.2	78
5	Preparation and properties of linear low-density polyethylene-g-poly (acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 Td (ac	2.3	76
6	Dielectric constant and refractive index of poly (siloxaneâ€“imide) block copolymer. Materials & Design, 2011, 32, 3173-3182.	5.1	62
7	Synthesis and evaluation on pH- and temperature-responsive chitosan-p(MAA-co-NIPAM) hydrogels. International Journal of Biological Macromolecules, 2018, 108, 367-375.	3.6	58
8	Preparation of polyimide/Al2O3 composite films as improved solid dielectrics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 799-804.	1.7	52
9	Preparation, Properties and Applications of Chitosan-Based Biocomposites/Blend Materials: A Review. Composite Interfaces, 2011, 18, 449-507.	1.3	51
10	The compatibilizing effect of epoxy resin (EP) on polypropylene (PP)/recycled acrylonitrile butadiene rubber (NBRr) blends. Polymer Testing, 2009, 28, 363-370.	2.3	44
11	Improvement of microstructures and properties of biodegradable PLLA and PCL blends compatibilized with a triblock copolymer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6930-6937.	2.6	44
12	Cross-link network of polydimethylsiloxane via addition and condensation (RTV) mechanisms. Part I: Synthesis and thermal properties. Polymer Degradation and Stability, 2011, 96, 2064-2070.	2.7	38
13	Effect of crosslink density on the refractive index of a polysiloxane network based on 2,4,6,8â€tetramethylâ€2,4,6, 8â€tetravinylcyclotetrasiloxane. Polymer International, 2013, 62, 382-389.	1.6	34
14	Effects of lysine triisocyanate on the mode I fracture behavior of polymer blend of poly (l-lactic acid) and poly (butylene succinate-co-l-lactate). Journal of Materials Science, 2009, 44, 3006-3009.	1.7	33
15	X-Ray Diffraction Studies of Cross Linked Chitosan With Different Cross Linking Agents For Waste Water Treatment Application. AIP Conference Proceedings, 2010, , .	0.3	33
16	Stretchable Conductive Ink Based on Polysiloxaneâ€“Silver Composite and Its Application as a Frequency Reconfigurable Patch Antenna for Wearable Electronics. ACS Applied Materials & Interfaces, 2019, 11, 28033-28042.	4.0	33
17	Linear lowâ€density polyethylene/(soya powder) blends containing polyethyleneâ€gâ€(maleic) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	32
18	Interpenetrating polymer network structured thermosets prepared from epoxidized soybean oil/diglycidyl ether of bisphenol A. Polymer International, 2014, 63, 273-279.	1.6	32

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19	Curing Characteristics, Mechanical, Thermal, and Morphological Properties of Halloysite Nanotubes (HNTs)-Filled Natural Rubber Nanocomposites. Polymer-Plastics Technology and Engineering, 2011, 50, 681-688.	1.9	27
20	Surface Modification of Poly(lactic acid) (PLA) via Alkaline Hydrolysis Degradation. Advanced Materials Research, 0, 970, 324-327.	0.3	27
21	Thermal properties and kinetic investigation of chitosan-PMAA based dual-responsive hydrogels. Industrial Crops and Products, 2015, 66, 178-187.	2.5	25
22	Utilization of waste polystyrene and starch for superabsorbent composite preparation. Journal of Applied Polymer Science, 2013, 127, 4195-4202.	1.3	24
23	Effect of cross-link density on optoelectronic properties of thermally cured 1,2-epoxy-5-hexene incorporated polysiloxane. Materials & Design, 2013, 47, 416-423.	5.1	22
24	Performance of fly ash based polymer gels for water reduction in enhanced oil recovery: Gelation kinetics and dynamic rheological studies. Korean Journal of Chemical Engineering, 2017, 34, 1638-1650.	1.2	22
25	Modeling the thermal behavior of coal fly ash based polymer gel system for water reduction in oil and gas wells. Journal of Petroleum Science and Engineering, 2017, 157, 430-440.	2.1	21
26	Hybrid Intelligent Modelling of the Viscoelastic Moduli of Coal Fly Ash Based Polymer Gel System for Water Shutoff Treatment in Oil and Gas Wells. Canadian Journal of Chemical Engineering, 2019, 97, 2969-2978.	0.9	20
27	Effect of epoxidized natural rubber on the processing behavior, tensile properties, morphology, and thermal properties of linearâ€lowâ€density polyethylene/soya powder blends. Journal of Vinyl and Additive Technology, 2010, 16, 238-245.	1.8	19
28	Dependence of the dielectric constant on the fluorine content and porosity of polyimides. Journal of Applied Polymer Science, 2011, 121, 3192-3200.	1.3	19
29	The Effect of Bis-(3-triethoxysilylpropyl) Tetrasulphide (Si-69) as a Coupling Agent on Properties of Natural Rubber/Kenaf Fibre Composites. Polymer-Plastics Technology and Engineering, 2011, 50, 893-897.	1.9	19
30	Thermal properties of polyimide system containing silicone segments. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1515-1523.	2.0	19
31	Hydrogel composites based on linear lowâ€density polyethyleneâ€gâ€poly (acrylic acid)/Kaolin or halloysite nanotubes. Journal of Applied Polymer Science, 2014, 131, .	1.3	19
32	The effects of the SiOSi segment presence in BAPP/BPDA polyimide system on morphology and hardness properties for opto-electronic application. Materials and Design, 2015, 82, 98-105.	3.3	19
33	Synthesis and functionalization of chitosan built hydrogel with induced hydrophilicity for extended release of sparingly soluble drugs. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 376-396.	1.9	18
34	The effect of partial replacement of carbon black (CB) with halloysite nanotubes (HNTs) on the properties of CB/HNT-filled natural rubber nanocomposites. Journal of Elastomers and Plastics, 2013, 45, 445-455.	0.7	17
35	Functional properties of chitosan built nanohydrogel with enhanced glucose-sensitivity. International Journal of Biological Macromolecules, 2016, 83, 376-384.	3.6	17
36	Biomechanics Measurements in Archery. Journal of Mechanical Engineering and Sciences, 2014, 6, 762-771.	0.3	16

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37	Kinetic investigation and lifetime prediction of Csâ€“NIPAMâ€“MBA-based thermo-responsive hydrogels. Carbohydrate Polymers, 2016, 136, 1182-1193.	5.1	15
38	Preparation and properties of kenaf dust-filled chitosan biocomposites. Composite Interfaces, 2008, 15, 851-866.	1.3	14
39	The Effect of Partial Replacement of Paper Sludge by Commercial Fillers on Natural Rubber Composites. Journal of Reinforced Plastics and Composites, 2008, 27, 1877-1891.	1.6	14
40	Environmental weathering of (linear lowâ€density polyethylene)/(soya powder) blends compatibilized with polyethyleneâ€grafted maleic anhydride. Journal of Vinyl and Additive Technology, 2012, 18, 57-64.	1.8	14
41	Synthesis, characterisation and thermal properties of hyperbranched polyimide derived from melamine via emulsion polymerisation. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1785-1798.	2.0	14
42	Effect of PEOâ€PPOâ€PEO copolymer on the mechanical and thermal properties and morphological behavior of biodegradable poly (Lâ€lactic acid) (PLLA) and poly (butylene succinateâ€coâ€Lâ€lactate) (PBSL) blends. Polymers for Advanced Technologies, 2011, 22, 1786-1793.	1.6	13
43	Fatigue and hysteresis behavior of halloysite nanotubesâ€filled natural rubber (SMR L and ENR 50) nanocomposites. Journal of Applied Polymer Science, 2013, 127, 3047-3052.	1.3	13
44	Characterization of the Microstructure and Mode I Fracture Property of Biodegradable Poly(L-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Technology and Engineering, 2013, 52, 768-773.	1.9	13
45	Study on the effect of virgin and recycled chloroprene rubber (vCR and rCR) on the properties of natural rubber/chloroprene rubber (NR/CR) blends. Journal of Polymer Engineering, 2013, 33, 803-811.	0.6	13
46	Effects of cetyltrimethylammonium maleate on curing characteristics and mechanical properties of polychloroprene rubber. Polymer Testing, 2003, 22, 179-183.	2.3	12
47	Thermal degradation behavior of a flame retardant melamine derivative hyperbranched polyimide with different terminal groups. RSC Advances, 2015, 5, 92664-92676.	1.7	12
48	Improvement of thermal ageing and transparency of methacrylate based poly(siloxaneâ€“silsesquioxane) for optoelectronic application. Journal of Applied Polymer Science, 2017, 134, 45285.	1.3	12
49	Synthesis and physicochemical investigation of chitosan-built hydrogel with induced glucose sensitivity. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 824-834.	1.8	11
50	Crosslink network and phenyl content on the optical, hardness, and thermal aging of PDMS LED encapsulant. Journal of Applied Polymer Science, 2019, 136, 47895.	1.3	11
51	Study on electronâ€beamâ€irradiated (linear lowâ€density polyethylene)/(soya powder) blends under outdoor exposure. Journal of Vinyl and Additive Technology, 2012, 18, 241-249.	1.8	10
52	A Low Cost 3D Foot Scanner for Custom-Made Sports Shoes. Applied Mechanics and Materials, 0, 440, 369-372.	0.2	10
53	Alignment of silver nanoparticles in polysiloxane crosslink network under direct electric field. Composites Science and Technology, 2021, 203, 108611.	3.8	10
54	Effects of a quaternary ammonium salt on the properties of carbon-black-filled natural rubber compounds. Polymer International, 2001, 50, 612-618.	1.6	9

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55	Evaluation of Cross-Linked Chitosan as Filler for Thermal Properties of Chitosan-Based Biocomposites. Polymer-Plastics Technology and Engineering, 2013, 52, 806-813.	1.9	9
56	Comparison of cetyltrimethylammonium maleate and sulphenamide as an accelerator in carbon black filled natural rubber compounds. Polymer Testing, 2001, 20, 607-614.	2.3	7
57	Preparation and characterization of 1,2,4,5-benzenetetra carboxylic-chitosan. E-Polymers, 2010, 10, .	1.3	7
58	Characterization of microstructure and mechanical properties of biodegradable polymer blends of poly(<scp>L</scp>â€lactic acid) and poly(butylene succinateâ€coâ€µâ€caprolactone) with lysine triisocyanate. Polymer Engineering and Science, 2010, 50, 1485-1491.	1.5	7
59	The Effects of PP-g-MA on the Physical Properties and Morphology of Polypropylene (PP)/Recycled Acrylonitrile Butadiene Rubber (rNBR) Blends. Polymer-Plastics Technology and Engineering, 2010, 49, 1150-1154.	1.9	7
60	Evaluation of Cross-Linked Chitosan as Filler on Mechanical Properties of Chitosan-Based Bio-Composites. Polymer-Plastics Technology and Engineering, 2012, 51, 333-339.	1.9	7
61	Thermal properties of 4,4-oxydiphathalic anhydride chitosan filled chitosan bio-composites. Journal of Thermal Analysis and Calorimetry, 2012, 107, 365-376.	2.0	7
62	Interphase volume calculation of polyimide/TiO2 nanofibers nanocomposite based on dielectric constant model and its effect on glass transition. Journal of Materials Science: Materials in Electronics, 2018, 29, 20742-20749.	1.1	7
63	Poly (Vinyl Alcohol) in Fabrication of PLA Micro- and Nanoparticles Using Emulsion and Solvent Evaporation Technique. Advanced Materials Research, 0, 1024, 296-299.	0.3	6
64	Star-shaped self-assembled micelles of block copolymer [chitosan-co-poly(ethylene glycol) methyl ether methacrylate] hydrogel for hydrophobic drug delivery. Polymer Bulletin, 2018, 75, 2243-2264.	1.7	6
65	Mechanical properties of 1,2,4,5â€benzene tetra carboxylic chitosanâ€filled chitosan biocomposites. Journal of Applied Polymer Science, 2011, 121, 111-126.	1.3	5
66	Surface roughness effect on optical loss in waveguide using isotropically induced crosslink network of siloxaneâ€“polyimide copolymer. Journal of Applied Polymer Science, 2020, 137, 49554.	1.3	5
67	Effects of hygrothermally decomposed polyurethane on the curing and mechanical properties of carbon black-filled epoxidized natural rubber vulcanizates. Journal of Applied Polymer Science, 2002, 84, 2265-2276.	1.3	4
68	Synthesis and characterization of cis-5-norbornene-2,3- dicarboxylic anhydride-chitosan. E-Polymers, 2010, 10, .	1.3	4
69	Effects of different pH medium on swelling properties of 1,2,4,5-benzenetetracarboxylic-chitosan-filled chitosan bio-composites. Polymer Bulletin, 2011, 67, 291-320.	1.7	4
70	Effect of chronic obstructive pulmonary disease on airflow motion using computational fluid dynamics analysis. , 2014, , .		4
71	Linear lowâ€density polyethyleneâ€gâ€poly(acrylic acid)/(organoâ€montmorillonite) hydrogel composite as hydrogel electrolytes for zincâ€“carbon batteries. Journal of Vinyl and Additive Technology, 2016, 22, 279-284.	1.8	4
72	Synthesis and thermo-chemical stability properties of 4,4â€²,4â€³-((1,3,5-triazine-2,4,6-triyl)tris(oxy))trianiline/4,4â€²-(4,4â€²-Isopropylidene-diphenoxy)bis(phthalic) Tj ET Q q 0 0 0 rgBT /Over	1.6	4

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73	Synthesis and Characterization of Highly Cross-Link Polysiloxane Based on 2,4,6,8- Tetramethyl-2,4,6,8-Tetravinylcyclotetrasiloxane. Advanced Materials Research, 0, 295-297, 2393-2395.	0.3	3
74	Superabsorbent hydrogels prepared from waste polystyrene and linear low-density polyethylene. Journal of Elastomers and Plastics, 2013, 45, 536-550.	0.7	3
75	Synthesis and Thermal Stability of Crosslinked Carbazole-Substituted Poly(Dimethylsiloxane) for Led Encapsulation. Polymers and Polymer Composites, 2014, 22, 625-632.	1.0	3
76	Synthesis of carbazoleâ€substituted poly(dimethylsiloxane) and its improved refractive index. Journal of Applied Polymer Science, 2015, 132, .	1.3	3
77	Fabrication of PEDOT:PSS/Graphene Conductive Ink Printed on Flexible Substrate. Solid State Phenomena, 2017, 264, 70-73.	0.3	3
78	Tunneling Percolation Mechanism of Conductivity for PEDOT:PSS in Hydrophilic PDMS Composite for the Fabrication of Highly Sensitive Strain Sensor. Macromolecular Chemistry and Physics, 0, , 2200077.	1.1	3
79	Curing Characteristics, Fatigue Life and Morphological Properties of Natural Rubber Nanocomposites with Halloysite Nanotubes (HNTs)/Carbon Black (CB) Hybrid Filler. Key Engineering Materials, 0, 471-472, 957-962.	0.4	2
80	Synthesis and Thermal Stability of Cross-Linked Carbazole-Substituted Poly(dimethylsiloxane) for LED Encapsulation. Advanced Materials Research, 0, 747, 733-736.	0.3	2
81	Plastics in Waveguide Application. , 2022, , 295-315.		2
82	Synthesis of Siloxane-polyimide Copolymer with Low Birefringence and Low Loss for Optical Waveguide. Journal of Physical Science, 2019, 30, 103-113.	0.5	2
83	Synthesis of Porous Silica via Styrene Natural Rubber Sacrificial Template. Advanced Materials Research, 2012, 626, 823-827.	0.3	1
84	Breakdown Strength Characteristic of RBDPO and Mineral Oil Mixture as an Alternative Insulating Liquid for Transformer. Jurnal Teknologi (Sciences and Engineering), 2013, 64, .	0.3	1
85	Effect of Curing Temperature on Degree Imidization of Melamine-BPADA Hyperbranched Polyimide Studied by FT-IR. Applied Mechanics and Materials, 2015, 754-755, 251-255.	0.2	1
86	Synthesis and fidelity study of ultraviolet-curable hydrogen silsesquioxane analogue as an elastomeric stamp. RSC Advances, 2016, 6, 81364-81371.	1.7	1
87	Influence of Silanized-Silica and Carbon Black on the Cure and Mechanical Properties of Natural Rubber/Recycled Chloroprene Rubber (NR/rCR) Blends. Advanced Materials Research, 2016, 1133, 191-195.	0.3	1
88	The effect of pre- and post-electron beam irradiation on the properties of NR/rCR blends. AIP Conference Proceedings, 2017, , .	0.3	1
89	Thermal and Lithographic Performance of Silsesquioxane with Cycloaliphatic Epoxyâ€Siloxane Hybrid Spacer for Soft Lithography. Macromolecular Materials and Engineering, 2018, 303, 1700371.	1.7	1
90	Effect of chitosan concentration on the properties of PLA/Î²-TCP scaffold produced by combination of solvent casting and salt leaching techniques. Journal of Physics: Conference Series, 2018, 1082, 012073.	0.3	1

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91	Implementation Polydimethylsiloxane based Stretchable conductive ink (SCI) for printable-stretchable electronic devices towards heterogeneous integration system. , 2018, , .		1
92	Fabrication of nanoporous polyimide of low dielectric constant. , 2008, , .		0
93	The effect of electron beam irradiation in presence Of TMPTA as an initiator on tensile properties of linear low density polyethylene/poyl(vinyl alcohol) blends. , 2011, , .		0
94	Preparation of Linear Low-Density Polyethylene-g-Poly(Acrylic Acid)-Co-Starch Hydrogel. Advanced Materials Research, 0, 1024, 163-166.	0.3	0
95	The Development of Macroporous PEG-Based Hydrogel Scaffolds for Tissue Engineering Applications. Materials Science Forum, 2015, 819, 361-366.	0.3	0
96	Enhanced Dielectric Properties of Polyimide Matrix Using Modified Electrospun Barium Titanate Nanofibers. Solid State Phenomena, 0, 264, 62-65.	0.3	0
97	Processibility and Thermo-Mechanical Properties of Epoxy as Reactive Plasticizer of Polyetherimide. Solid State Phenomena, 2017, 264, 228-231.	0.3	0
98	Analysis of an Olympic Scale of a Recurve Bow Riser on the Basis of Malaysian Under 15 and Under 17 Archers. Advances in Intelligent Systems and Computing, 2017, , 131-140.	0.5	0
99	Development of the Wireless Goniometer in Measuring Range of Motion for Lower Extremities. Advanced Science Letters, 2017, 23, 5107-5111.	0.2	0